



Pre-submission

- Reread all instructions pertaining to RFA and Application Guidelines
- Follow budget restrictions
- Include checklist
- Sign application
- → Affix RFA label (available in PHS 398) to bottom of the face page of application

Letters of Intent (LOI)

- Not mandatory nor binding, but EXTREMELY helpful
- → Due: October 17, 2006
- Include:
 - Title
 - Name, address, Pl's telephone #, & email address
 - Names of key personnel & participating institutions
 - Number (ES06-001) & title of RFA
 - Information about projects/cores*
- Send to Janice Allen

Disease Investigation through Specialized Clinically Oriented Ventures in Environmental Research

Submission - November 17, 2006

Center for Scientific Review, NIH – Signed original + 2 copies Scientific Review Branch (SRB), NIEHS – 3 signed copies Appendix Materials to SRB, NIEHS – 5 copies, collated by research projects/cores

Janice B. Allen, Ph.D. Scientific Review Administrator Scientific Review Branch NIEHS NIEHS PO Box 12233 (MD EC-30) RTP, NC 27709

Express Delivery:

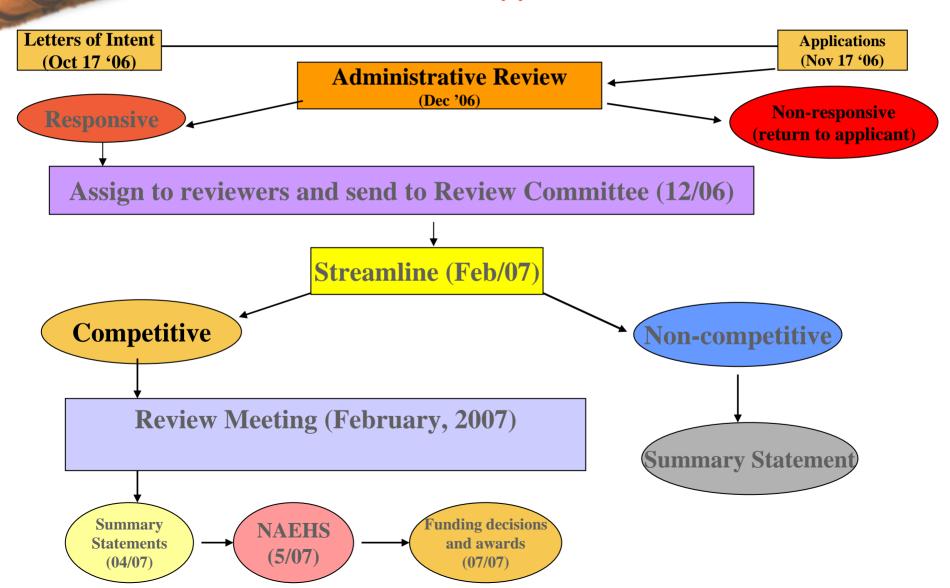
79 TW Alexander Drive Bldg 4401, Room 3173 RTP, NC 27709

Supplemental material received no later than December 15, 2006

DISCOVER

Disease Investigation through Specialized Clinically Oriented Ventures in Environmental Research

Review of Applications' Timeline





Streamlining of Applications

Purpose: to identify applications that are least likely to be funded so that more time can be spent on the most scientifically meritorious applications

Goal: Identify lower 1/3 to 1/2 applications

- Conducted by review committee prior to review
- Decision to "streamline" must be unanimous
- Streamlined applications do not get discussed and scored at full review meeting, but do receive a written critique

Know your Audience!

The Reviewers

- Accomplished, dedicated, fair
- Overly committed, tired, inherently skeptical, overly critical
- General understanding only
- Used to reviewing R01 applications

The key to success in grant writing is to engender **enthusiasm** in the reviewer, who then becomes an **advocate** for the proposal!



DISCOVER Review Elements

- Integrated, Interdisciplinary and Translational Nature of Program
- Coordination and Cohesiveness
- Center Director
- Lead physician scientist
- Investigators/Key Personnel
- Administrative Core
- Minimum of four integrated research projects (identify as basic or clinical)
- → Facility Cores

Required in Research Plan

- Protection of Human Subjects from Research Risks (IRB: justin-time)
- Inclusion of Women, Minorities, and Children in research
- Care and Use of Vertebrate Animals in research (IACUC: justin-time)
- → Data and Resource Sharing plans should be included, or state why data sharing is not possible (not considered a review element)
- Data sharing costs are allowable budget items
- Reviewers will consider the reasonableness of the plan or rationale for not sharing research data

http://grants.nih.gov/grants/policy/data_sharing/index.htm



Scoring...

Components to receive numerical scores

- Research Projects
- Integrated/interdisciplinary/translational nature
- Administrative Core
- Overall Priority

Components to receive descriptors

- Center Director
- Lead Physician Scientist
- Facility Cores

SIGNIFICANCE:

- Does the study address an important problem?
- If the aims are achieved will scientific knowledge or clinical practice be advanced?
- What will be the effect of these studies on the concepts, methods, technologies, treatments, services, or preventative interventions that drive the field?
- → If the study is successful, would it lead to an incremental advance, or would it provide a substantial step forward that would not likely be achieved through mechanisms other than this DISCOVER Center?
- → If successful, would the project result in resources that could be translated to improve human health or disease?

APPROACH

- Are the conceptual or clinical framework, design, methods, and analyses adequately developed, well integrated, and appropriate to the aims of the project?
- Does the applicant acknowledge potential problem areas and consider alternative strategies?
- Is there strong synergy among the combined efforts of various investigators within the DISCOVER Center?
- Is there evidence that environmental health sciences research is well-integrated into the research design?



INNOVATION:

- Is the project original and innovative?
- → Does the project challenge existing paradigms or clinical practice: address an innovative hypothesis or critical barrier to progress in the field?
- → Does the project develop or employ novel concepts, approaches, methodologies, tools or technologies for this area of research?



INVESTIGATORS:

- Are the Investigators appropriately trained and well suited to carry out the proposed work?
- Is the work proposed appropriate to the experience level of the Principal Investigator and other researchers, including consultants and subcontractors (if any)?
- Does the investigative team (basic and physician scientists) bring complementary and integrated expertise to the project?

DISCOVER

Review Criteria: Research Projects

ENVIRONMENT:

- Is there sufficient access to resources (e.g., equipment, facilities)?
- Does the scientific and technological environment in which the work will be done contribute to the probability of success?
- Do the proposed experiments take advantage of unique features of the scientific environment, or subject populations or employ useful collaborative arrangements?
- Is there evidence of Institutional support?

Review Criteria: Facility Cores

- → Evaluate scope of core, quality of services, cost effectiveness and credentials of personnel.
- Evaluate overall use of cores by each research project to evaluate need for core.
- Evaluate core for its overall importance to Center.
- Will the core contribute to expansion of research into new areas?
- → Institutional commitment?
- Assess overall budget to determine if the usage is proportional to support requested?
- Evaluate explanation for prioritization of services.

Review Criteria: Administrative Core

- Plan for effective management.
- Internal plan to promote integration and coordination among projects.
- Plan to develop product development and tech transfer activities.
- Qualifications of administrative staff.
- Plan for use of Internal and External Advisory committees.

Review Criteria: Leadership

Center Director (15% Effort):

- → Level of commitment and ability to provide scientific and administrative leadership and direction.
- Experience in coordinating large interdisciplinary research efforts.

Lead Physician-Scientist (15% Effort):

- Ability to provide clinical insight, leadership and direction to research of Center.
- Commitment level and ability to integrate basic mechanistic, clinical and public health research.

Review Criteria: Integrated, Interdisciplinary, and Translational Nature of Program

- → What is the strength of the procedures, processes and plans for promoting interdisciplinary interactions, including coordination, interaction, collaboration and synthesis?
- Is the center organized and structured and managed for maximum productivity and interactions?
- Is the overall program novel in its concept and provide innovative approaches?
- How do the cores and individual projects relate to the central theme and the ability to meet long range goals?
- Will the studies facilitate research findings towards the development of improved clinical or public health practice?

Review Criteria: Overall P50 Center

SIGNIFICANCE:

Relevance of the proposed research to human health and disease.

- Development of a well-defined interdisciplinary approach to addressing a central theme.
- → Evidence for fostering the advancement of basic science and translation into improved clinical and public health application.

Review Criteria: Overall P50 Center

Coordination and Cohesiveness:

- Integration of administrative core, research projects and facility/service cores.
- → Evidence for meaningful interdisciplinary collaboration and synergistic potential between the research projects.

Review Criteria: Overall P50 Center

Resources and Environment:

- Institutional strength, commitment to research and support of the Center.
- Academic and physical environment: space, equipment, research subjects, and materials.

Factors Affecting Overall Score

- Multi- and Interdisciplinary coordination
 - Integration and interaction of basic and clinical sciences
 - Translational potential
- → Scientific merit of research projects
- Importance and use of cores
- Coordination and Cohesiveness
- Directors and other key personnel